

Agilent 1290 Infinity Thermostatted Column Compartment G1316C

The **Agilent 1290 Infinity Thermostatted Column Compartment** is a stackable temperature-controlled column compartment for LC. It is available as standalone module or as a component of an Agilent 1290 Infinity system. It is used for heating and cooling to meet extreme requirements of retention time reproducibility.

The main features of the 1290 Infinity Thermostatted Column Compartment are:

- Peltier heating and cooling from 10 degrees below ambient up to 100 °C with high heating and cooling speeds for maximum application flexibility and stability,
- holds up to three 30 cm columns,
- optimized design gives minimum dead volumes and maximum efficiency,
- two independently programmable heat exchangers contribute volumes of only 3 and 6 μ l,
- additional heating devices for low flow rates, which reduce the risk of additional dispersion,
- it can be supplemented by a kit to install a small heat exchanger with 1.6 μ l delay volume to reduce the delay volume.
- electronic column-identification as standard for GLP documentation of column type, and major column parameters,
- optional high-quality Quick-Change valve heads.

Physical Specifications Agilent 1290 Infinity G1316C

Type	Specification	Comments
Weight	11.2 kg (22 lbs)	
Dimensions (height width depth)	140 x 345 x 435 mm (5.5 x 13.5 x 17 inches)	
Line voltage	100 – 240 V AC, 50/60 Hz	Wide-ranging capability
Line frequency	50 or 60 Hz, 5	
Power consumption	320 W A / 150 W / 512 W T	Maximum
Ambient operating temperature	0–55 °C (32–131 °F)	
Ambient non-operating temperature	-40 – 0 °C (-40 – 158 °F)	
Humidity	95 % r.h. at 40 °C (104 °F)	Non-condensing
Operating altitude	Up to 2000 m (6562 ft)	
Non-operating altitude	Up to 4600 m (15091 ft)	For storing the module
Safety standards: IEC, CE, A, L	Installation category II, Pollution degree 2	For indoor use only.



Source: Agilent 1290 Infinity Thermostatted Column Compartment manual

Performance Specifications Agilent 1290 Infinity G1316C

Type	Specification	Comments
Temperature range	10 degrees below ambient to 100 °C up to 80 °C: flow rates up to 5 ml/min up to 100 °C: flow rates up to 2.5 ml/min	
Temperature stability	0.05 °C	
Temperature accuracy	0.8 °C 0.5 °C	with calibration
Column capacity	Three 30 cm	
Warm-up/cool-down time	5 min from ambient to 40 °C 10 min from 40 – 20 °C	
Head volume	1.6 µl low dispersion heat exchanger 3 µl left heat exchanger 6 µl right heat exchanger	i.d. 0.12 mm (capillary kit available) i.d. 0.1 mm (standard)
Communications	Controller-area network (CAN), RS-232C, APG remote: ready, start, stop and shut-down signals, LAN via other modules	
Safety and maintenance	Extensive support for troubleshooting and maintenance is provided by the Instant Pilot, Agilent Lab Advisor, and the Chromatography Data System. Safety-related features are leak detection, safe leak handling, leak output signal for shutdown of pumping system, and low voltages in main or maintenance areas.	
GLP features	Column-identification module for GLP documentation of column type	
Design	All materials recyclable.	

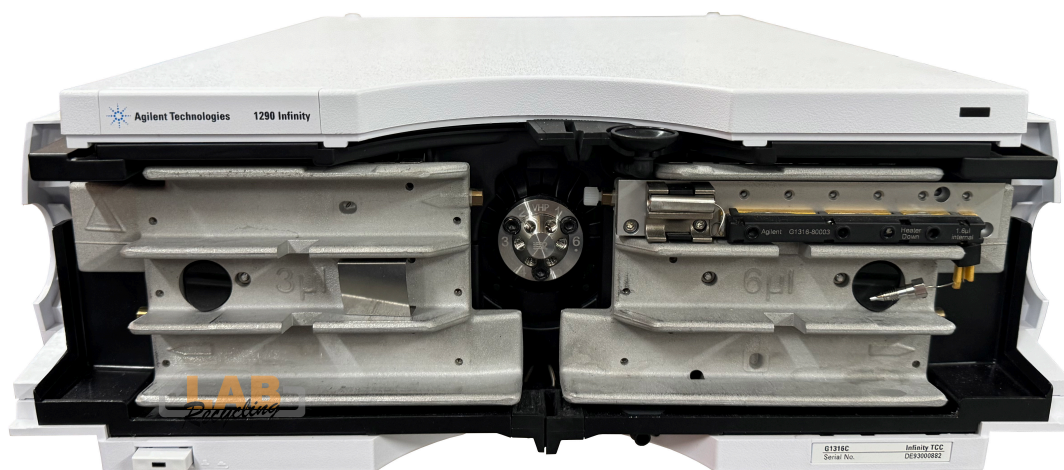
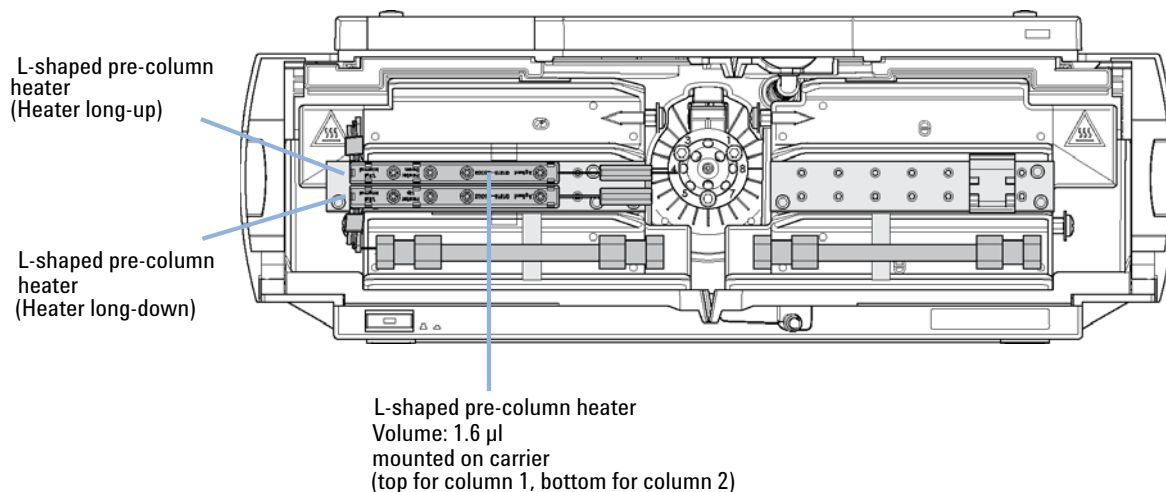
All specifications are valid for distilled water at ambient temperature (25 °C), set point at 40 °C and a flow range from 0.2–5 ml/min.



Source: Agilent 1290 Infinity ThermoStatted Column Compartment manual

Extended Specifications on G1316C

The 1290 Infinity Thermostatted Column Compartment (G1316C) is usable from 10 °C below ambient up to 80 °C for flow ranges up to 5 ml/min and up to 100 °C for flow ranges up to 2.5 ml/min. Additional heating devices are available for the G1316C to reduce the risk of additional dispersion at low flow rates, see Figure . These devices can be installed in any position in the column compartment.



Source: Agilent 1290 Infinity Thermostatted Column Compartment manual